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**Subject:** Hurricane Harvey ESF-10 Texas Situation Report #7 for 9/5/2017  
**Date:** Tuesday, September 5, 2017 9:39:43 PM  
**Attachments:** [Hurricane Harvey ESF-10 Texas Situation Report #7 for 09-05-17.pdf](#)

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## **Hurricane Harvey-Texas**

### **ESF-10**

#### **Situation Report #7**

**Subject:** SITREP #7  
**To:** Agency Leads  
**Thru:** Matthew Loesel. PSC  
**From:** Unified Command  
**Date:** 9/5/2017  
**Reporting Period:** 9/5/2017

## **1. Introduction**

### **1.1. Background**

Hurricane Harvey made landfall at 2300 ET, August 26<sup>th</sup>, as a Category 4 storm near Rockport, Texas. Harvey stalled over southeastern TX. Due to its slow motion and a prolonged period of onshore flow, the impacted areas received more than 50 inches of precipitation which subsequently led to catastrophic flooding.

An ESF-10 Mission Assignment was signed on August 28, 2017. The US Environmental Protection Agency (EPA), Texas Commission on the Environmental Quality (TCEQ), Texas General Land Office (TGLO) and the US Coast Guard (USCG) have entered into Unified Command to begin the evaluation, clean-up and recovery of spills, releases and orphan containers.

## **2. Current Activities**

### **2.1. Operations Section**

On September 5, 2017, the Unified Command continued operations in accordance with the Natural Disaster Operational Workgroup (NDOW) Standard Operating Procedures, NDOW forms and Response Manager. The Unified Command is supported by three operational branches: Alpha Branch in Corpus Christi, Bravo Branch in Houston and Charlie Branch in Port Arthur. Oil Discharge Assessment and Recovery teams as well as Orphan Container Evaluation and Recovery teams continued working throughout the Alpha, Bravo and Charlie Branches. Drinking Water and Waste Water Assessment teams were active as well throughout the area.

The phone bank in Austin, consisting of EPA and TCEQ personnel continue contacting drinking water and waste water facilities by phone. They conduct an initial damage assessment via phone surveys. Applicable survey forms are completed for system and entered into Response Manager. Areas of concern are followed up with an on-site assessment.

Table 1 represents the assessments of drinking water and waste water systems evaluated by both phone and on-site.

<b>Table 1: Drinking Water and Waste Water Assessment</b>		
<b><u>Assessment Types</u></b>	<b><u>Daily Assessments</u></b>	<b><u>Total Assessments</u></b>
On-Site DW Assessments	15	102
On-Site WW Assessment	14	80
Phone DW Assessments	438	4402
Phone WW Assessments	112	2803

Table 2 and 3 represent the work of teams in Alpha, Bravo and Charlie Branches in the evaluation, assessment and recovery of orphan container and spills or discharge from various targets.

<b>Table 2: Daily/Cumulative summary of Hazard Evaluations/Recovery</b>				
<b>Status</b>	<b>Opened</b>		<b>Closed</b>	
	<b>9/5/2017</b>	<b>Cumulative</b>	<b>9/5/2017</b>	<b>Cumulative</b>
Alpha Branch	4	31	7	65
Bravo Branch	27	154	7	22
NRC Reports	0	3	0	0
<b>Totals</b>	<b>31</b>	<b>188</b>	<b>14</b>	<b>87</b>

Note: Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.

<b>Table 3: Daily/Cumulative Summary of Spills/Discharges</b>				
<b>Status</b>	<b>Opened</b>		<b>Closed</b>	
	<b>9/5/2017</b>	<b>Cumulative</b>	<b>9/5/2017</b>	<b>Cumulative</b>
Alpha Branch	32	383	26	58
Bravo Branch	13	50	6	12
NRC Reports	2	29	0	15
<b>Totals</b>	<b>47</b>	<b>462</b>	<b>32</b>	<b>85</b>

Note: Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.

## **Other Notable Activities**

### **AUSTIN BRANCH**

The phone bank continued to conducted phone surveys for assigned drinking water and wastewater facilities. Information was used to conduct damage assessments. They continued completing applicable survey forms for each water or wastewater system and entered the data into Response Manger. They continue to coordinate with TCEQ.

### **ALPHA BRANCH**

On Tuesday, September 5, 2017, Liaison staff attended the Nueces County LEPC meeting with 42 people in attendance. Liaison reported out on the work EPA has accomplished to date and what is projected to be done under the Unified Command mission.

Members of the Emergency and Rapid Response Services group responded to and recovered orphan containers from Port Aransas to Rockport. The Oil Discharge Recovery group worked to engage with local vessel owners to ensure removal and remediation of displaced vessels.

At Aransas Pass, the Oil Discharge Assessment Group (ODA) 1 continued to closely monitor fuel removal operations of the Signet Enterprise. 10,000 gallons of diesel was safely removed today and 45,000 gallons have been removed overall. ODA group 1 also coordinated and monitored Responsible Party led operations in Conn Brown Harbor and continued to prioritize threats to the environment for removal.

Oil Discharge Recovery (ODR) groups 2 and 3 coordinated and monitored Responsible Party led operations in Island Moorings and Cove Harbor, while identifying threats to the environment for removal. ODR group 4 is on stand-by to respond to any reports of active pollution discharges, NRC Reports or CHEMTEL Reports as appropriate and initiate actions to recover the pollution.

The Alpha Branch continues to manage the staging area pad. A total of 4 cylinders were recovered. Orphan Container Recovery (OCR) group 1 recovered a 200-gallon propane tank and delivered to staging area. OCR group 1 discovered a target on an island across from Gulf Marine Fabricators and another target in Redfish Bay that needs to be assessed and recovered by boat. The Alpha Branch will continue to review backlog list of NRC reports compared to Response Manager targets and oversight of fuel transfer of Signet Enterprise.

DATE	CONTAINERS			Cylinders	TOTALS	
	Drums [55gal]	Small Containers [< 55gal]	Large Containers [> 55gal]		Total Items Collected Today	Total Items Collected Project to Date
9/1/2017	26	22	1	1	49	49
9/2/2017	6	10	1		17	66
9/3/2017	7			3	7	73
9/4/2017	10		3	1	13	86
9/5/2017				5	5	91

## BRAVO BRANCH

During this operational period, 19 Hazard Evaluation (HE) Teams conducted and completed assessments in Liberty County, Chambers County, and Montgomery County. They identified 24 targets with nothing significant issues found. The overall HE Assessment Status in Liberty and Chambers Counties is 100% complete, while 70% complete in Montgomery County, and 10% complete in Austin County.

The Air Recon Team conducted an aerial overflight in the morning to reassess Freeport, Baytown, Kemah, and Anahuac with nothing significant to report. An overflight also occurred over Austin, Matagorda, and Colorado counties with 6 targets identified in Matagorda County.

Six Discharge Assessment Teams assessed 15 targets, discovered two semi-submerged vessels, and inspected 14 floated vessels at Seashore Marina with nothing significant to report. The Discharge Assessment Group also identified potential locations for staging pending the implementation of salvage plans and operations.

There was one significant incident to report, a large spill that estimated 1,600 gallons position at 29.8173981, -95.0793405. The sector notified Bravo this morning and determined the incident was storm related. Sector Houston has been working on it since August 31<sup>st</sup>, since flood waters have receded the source has been contained. Assessments today were impacted

by road closures and flooding in Chambers County. Grid areas that were inaccessible by land were checked by the overflights.

On Tuesday September 5, 2017, ASPECT completed zone 4 and part of zone 8. Zone 4 consisted of Matagorda County and Wharton County. Summary for this zone is:

RMP = 16 of 16

DW = 87 of 87

WW = 17 of 17

Zone 8 is in Brazoria County. The zone is about 10% complete with the following summary:

RMP = 2 of 10

DW = 20 of 95

WW = 1 of 9

ASPECT expects to complete zone 8 on 6 Sept 2017 and begin Zone 9 which is the remainder of Brazoria and all of Galveston County.

#### **CHARLIE BRANCH**

Charlie has increased the number of personnel on scene. They conducted NDOW training and in-briefed responders on EPA tracking protocol. Two EPA trailers arrived and a Gulf Strike Team (GST) Command Trailer arrived. The Charlie Branch added 3 START contractors for data and mapping support.

Command staff held a meeting with USCG/EPA/TGLO/TCEQ to discuss a way forward. All agencies continued to work well together.

On Tuesday September 5, 2017, around 1400, a spill was reported at an abandoned well in Orangefield. A team was on the way to assess. An EPA On-Scene Coordinator contractors responded to the active discharge. There was an unknown amount of crude oil noted by a hazardous evaluation team, which ERRS combatted by placing sorbent pad and boom. The source of the spill is being investigated.

HE Team 1 identified potential release from rail car, TGLO is taking lead for coordination. One aerial flight conducted observation noting numerous targets for follow-up. These targets will be entered into the NDOW system. Most of Charlie Branch is still flooded, especially the facilities.

On Wednesday September 6, 2017, 7 hazard evaluation teams are to perform ground assessments with TGLO and TCEQ.

#### City of Beaumont Update:

On September 5, 2017, the TCEQ Water Supply Division received the following status update for the City of Beaumont Water Treatment Facilities from Barry Miller, Water Treatment Manager:

The groundwater plant remains off-line due to flooding conditions. The surface water treatment plant (SWTP) is producing 24 MGD as of 7:00 am this morning. Crews were able to construct a barge in the river to accommodate the pumps and feed lines which feed raw water to the SWTP.

The SWTP has been operating on grid power since late yesterday.

The original raw water pumps are out, and estimated to remain out of service for several weeks. The elevated storage tanks are at about 20%. The demand in the distribution system cannot be met by the elevated storage tanks, so it is being supplied by direct pressure from the high service pumps. Crews will be opening more distribution lines and increasing pressure in the system throughout the day.

Plans are being made to pressurize the line to the Federal Correction Facility today. The City of Beaumont remains on a boil water notice.

#### Additional current status:

- Plant is back on grid power
- 2 week supply of Alum (coagulant)
- 2 week supply of caustic (pH adjustment)
- 2 week supply of chlorine
- 1-month supply of Polymer

The City has their Emergency Operations Center (EOC) fully functional and is coordinating efforts to make repairs and acquire chemicals and materials for both short-term and long-term. Paul Zappi (Managing Engineer for the City) is our contact person for the EOC.

The TCEQ Water Division will maintain lines of communication with the SWTP and the EOC to receive updates and offer advanced technical assistance.

### **3. Participating Agencies**

- **Texas Commission on Environmental Quality**
- **Texas General Land Office**
- **Texas Parks and Wildlife**
- **6<sup>th</sup> Civil Support Team**
- **US Environmental Protection Agency**
- **US Coast Guard**
- **National Oceanic and Atmospheric Agency**

#### 4. Personnel on Site

Agency	ICP	Alpha Branch	Bravo Branch	Charlie Branch	Austin	Totals
US EPA	16	3	24		10	53
USCG	8	22	41	30	1	102
TCEQ	4	5	28	0		37
TGLO	9	1	2	5		17
TXSG			8	0		8
CST	0	0	14	0		14
Contractors	7	10	7	3		27
<b>Totals</b>	<b>44</b>	<b>41</b>	<b>124</b>	<b>38</b>	<b>11</b>	<b>258</b>

\*Charlie Branch is continuing the process of being staffed.

